

Fact Sheet #1: Pipelines on the Bad River Reservation

Enbridge - Line 5

Pipeline Information:

Owner	Enbridge, Inc. 1100 Louisiana Street, Suite 3300 Houston, TX 77002 Phone: 713-821-2000
Web-site	http://www.enbridge.com/lifetakesenergy
Date Built	1953
Product	Sweet light crude oil & NGL LP gas
Amount Per Day	540,000 barrels
Easement Expir.	2013 for individual allotees land/2042 for Tribal Land
Easement Area	
*Information provided by the Enbridge Integrity Management Program	
Presentation to the Bad River Tribe, 2015 & www.enbridge.com.	

Physical Characteristics:

Length thru Bad River	13 miles
Length in Total	1,098 total miles (runs East from Superior, WI to Sarnia, Ontario, Canada)
Diameter	30 inches
Pipe Wall Thickness	0.28-0.38 inches
Steel Grade	318MPa, 359MPa
Exterior Pipe Coating	Coal Tar Enamel
Long Seam Weld Type	SAW (submerged arc weld)
Depth Buried	6 ft. (waterways may vary)
Pressure Range	Hydro-testing pressure 830-1040 PSI Max. Operating Pressure 670-860 PSI Normal Operating Pressure 202-440 PSI
Manufacturer	National Tube & Consolidated Western

Trans Canada Lines 100 & 200

Pipeline Information:

Owner	Trans-Canada (Houston Corporate Office) 700 Louisiana Street Houston, TX 77002 Phone: 832-320-5000
Web-site	transcanada.com (Great Lakes System tab will take you to Great Lakes Gas Transmission Co)
Date Built	1968 (100) & 1989 (200) run parallel to each other
Product	Natural Gas (Marsh gas, methane, fuel gas)
Amount Per Day	300,000 cubic feet to 2.1 million cubic feet
Easement Expir.	June of 2018
Easement Area	75 ft wide, centered over pipelines, 1,320 ft in length
*Information provided by transcanada.com & www.gtgt.com	

Physical Characteristics:

Length thru Bad River	12.6 miles
Length in Total	2115 mi. running from the MN-Manitoba border at Emerson to the MI-Ontario border at St. Clair.
Diameter	36 inches
Pipe Wall Thickness	0.375 inches (except at river crossings where it is 0.593 inches)
Steel Grade	0.375 is X65 and .0593 is X60
Exterior Pipe Coating	varies/asphalt, epoxy
Long Seam Weld Type	5LX-X65 electric weld
Depth Buried	30 inches below the surface on land 48 inches below the surface of land under waterways
Pressure Range	500 psi to 974 psi (per square inch)
Manufacturer	Bethlehem Steel, US Steel, Stelco Berg

Northern Natural Gas - Rib Lake Line

Pipeline Information:

Owner	Northern Natural Gas
Berkshire Hathaway, Inc.	1111 South 103rd Street Omaha, NE 68124 Phone: 877-654-0646
Web-site	http://www.northernnaturalgas.com/Pages/default.aspx
Date Built	1969
Product	Natural Gas
Amount Per Day	10.735 million cubic feet (peak)
Easement Expir.	2019
Easement Area	80 ft. wide, centered over the pipeline/75.8 acres

Physical Characteristics:

Length thru Bad River	7.9 miles
Length in Total	91 mi. from Marquette Line to Rib Lake
Diameter	10.75 inches
Pipe Wall Thickness	0.203 inches
Steel Grade	X60
Exterior Pipe Coating	Tape-single coating
Long Seam Weld Type	
Depth Buried	30 inches
Pressure Range	967 lbs. per square inch
Manufacturer	

*information from the Northern Natural Gas Draft Environment Assessment prepared for the Bad River Band, August 2016

Northern Natural Gas - Marquette Line

Pipeline Information:

Owner	Northern Natural Gas
Berkshire Hathaway, Inc.	1111 South 103rd Street Omaha, NE 68124 Phone: 877-654-0646
Web-site	http://www.northernnaturalgas.com/Pages/default.aspx
Date Built	1966
Product	Natural Gas
Amount Per Day	195 million cubic feet (peak)
Easement Expir.	2016
Easement Area	100 ft. wide, centered over the pipeline/147 acres

Physical Characteristics:

Length thru Bad River	12.4 miles
Length in Total	260 mi. from Carlton, MN to Marquette
Diameter	16 inches
Pipe Wall Thickness	0.203 inches
Steel Grade	X60
Exterior Pipe Coating	Tape-single coating
Long Seam Weld Type	
Depth Buried	30 inches
Pressure Range	967 lbs. per square inch
Manufacturer	

*information from the Northern Natural Gas Draft Environment Assessment prepared for the Bad River Band, August 2016

*****The Bad River Natural Resources Dept. (BRNRD) has produced this factsheet to provide the characteristics of the pipelines crossing the Bad River Reservation and developed a map showing the locations of these pipelines. This factsheet is the first in a series of factsheets that BRNRD is creating to distribute technical information about the pipelines and their impacts on natural resources. Please visit the BRNRD website to view our mission statement and additional resource materials.**

www.badriver-nsn.gov/tribal-operations/natural-resources

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